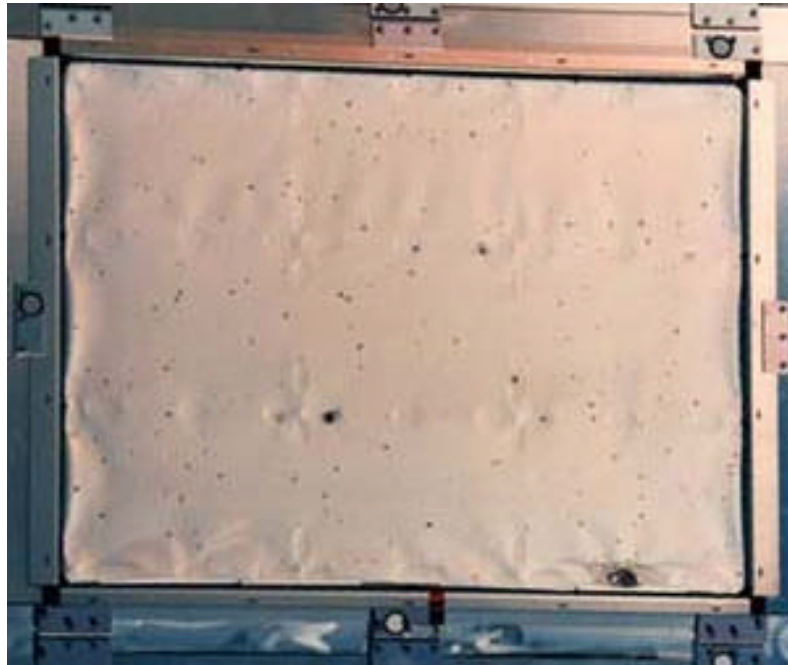




Space Stable Polymer Thermal Control Films and Multilayer Insulations

E6



Objective

This task has delivered a space-stable second surface mirror (SSM) and multilayer insulation (MLI) blanket product for thermal control on space vehicles in low-Earth orbits (LEO) and geostationary orbits (GEO). Space stable polymers are resistant to atomic oxygen in LEO and VUV and electron beams in GEO.

Why Needed

Many NASA programs, including the International Space Station (ISS) and Reusable Launch Vehicle (RLV) and Next Generations Space Telescope (NGST), require resistance to the space environment and lightweight for economical launches and operations. Development and delivery of the products will result in longer life products (5 – 15 years) which means significantly reduced costs.

Point of Contact

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Sponsor

NASA Space Environments and Effects (SEE) Program